

# OWNER'S MANUAL

## 11 H.P. LAWN TRACTORS

NOTE: Optional Mowing Decks Available

38" Side Discharge Deck - Model 192-765A

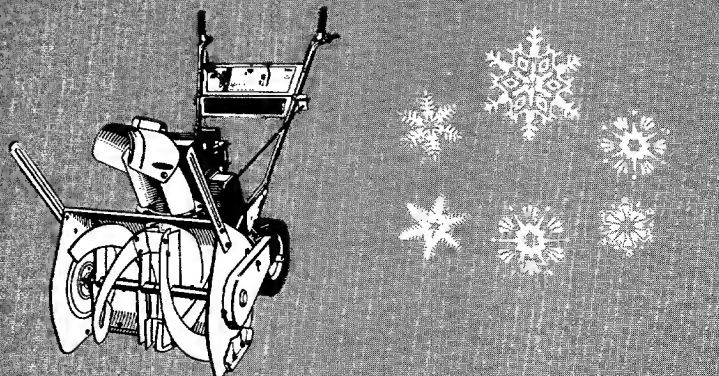
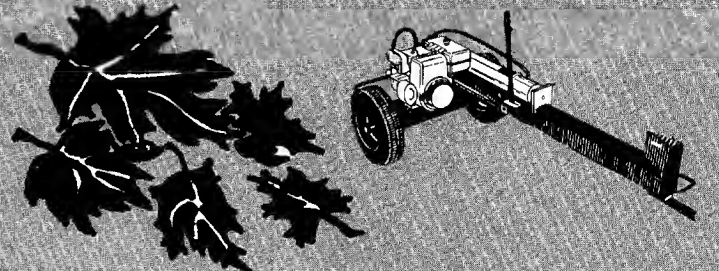
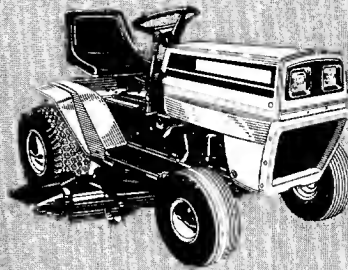
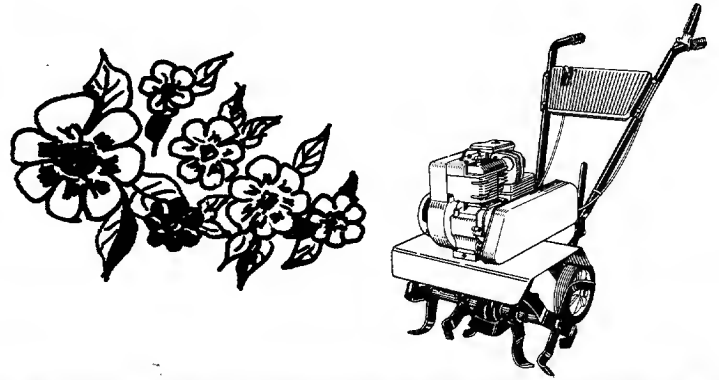
44" Rear Discharge Deck - Model 192-931A

44" Side Discharge Deck - Model 192-935A

**Model Numbers**  
**132-050A**  
**132-730A**

**Important:**  
**Read Safety Rules and**  
**Instructions Carefully**

Thank you for purchasing an  
American built product.



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## LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



**WARNING**

### TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.



## WARNING

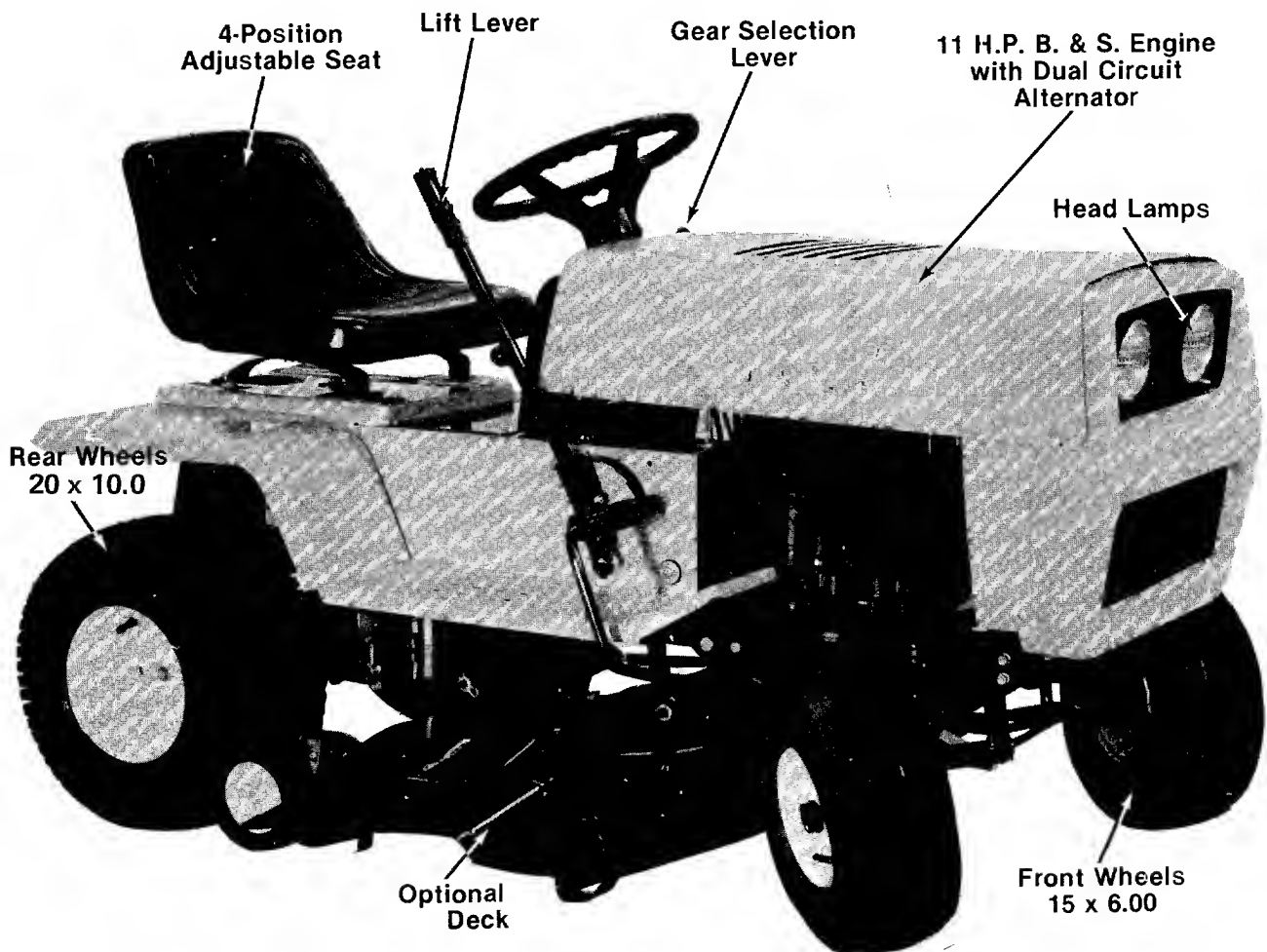
To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

# SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—READ THIS OWNER'S MANUAL.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
6. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
7. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
9. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
11. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
12. Stop the blade(s) when crossing gravel drives, walks or roads.
13. Disengage all attachment clutches and shift into neutral before attempting to start engine.
14. Disengage power to attachment(s) and stop engine before leaving operating position.
15. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
16. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
17. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
18. Disengage power to attachment(s) when transporting or not in use.
19. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
21. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
22. Stay alert for holes in terrain and other hidden hazards.
23. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
26. Handle gasoline with care. It is highly flammable.
  - A. Use approved gasoline container.
  - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
  - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.

29. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
  30. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
  31. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
  32. Do not change the engine governor settings or overspeed the engine.
  33. When using the vehicle with mower, proceed as follows:
    - (1) Mow only in daylight or in good artificial light.
    - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    - (4) Check blade mounting bolts for proper tightness at frequent intervals.
  34. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
  35. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.
- 

## KNOW YOUR TRACTOR





This unit is shipped WITHOUT GAS-OILINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

## ASSEMBLY

The lawn tractor is packed and shipped in one container and is fully assembled except for the steering wheel, seat and battery.

### BATTERY INFORMATION



**WARNING**

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.\*
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.
- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.

**\*Always shield eyes, protect skin and clothing when working near batteries.**



**DANGER**

**BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).**

**KEEP BATTERIES OUT OF THE REACH OF CHILDREN!**

## ACTIVATING THE BATTERY



**NOTE**

If the battery is activated (electrolyte in the battery) and installed in the tractor, go directly to step 9.

- 1. Place the battery to be filled on a workbench. Never activate a battery in the unit.
- 2. Slip one end of the battery drain tube on the battery manifold.
- 3. Remove the fill caps from all cells.
- 4. Fill each cell carefully using 1.265 specific gravity electrolyte. Fill each cell to the top of the separators. Do not overfill.
- 5. Let the battery sit for 20 minutes for the chemical reaction to take place.
- 6. Charge the battery at a MAXIMUM RATE OF 5 AMPS. until the specific gravity reads 1.265. Use a hydrometer to check the specific gravity.



**CAUTION**

An excessive rate of charge will damage the battery.

- 7. Check the level of electrolyte. Adjust level to bottom of split ring if necessary with electrolyte.
- 8. Replace fill caps.



**CAUTION**

After battery has been in service, add only distilled water. DO NOT ADD ACID.

- 9. If your battery has been installed in your unit at the factory:
  - A. Use a hydrometer to check the specific gravity. The specific gravity should be 1.265 at 80° F.
  - B. If it is less, remove the fill caps and use a battery charger to bring the specific gravity up to 1.265. NEVER CHARGE AT MORE THAN 5 AMPS.
  - C. Replace the fill caps.
  - D. The positive cable has been attached to the positive terminal of the battery at the factory. You only have to attach the negative cable (grounded) to the negative (Neg, N or -) terminal of the battery with a hex head bolt, lock washer and nut.

## INSTALLING THE BATTERY



**NOTE**

The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (-).

1. Place the battery in the battery box with the terminals towards the rear of the tractor.
2. Secure the battery with the two hold down rods, battery hold down, lock washers and wing nuts. See figure 1.



The vented battery allows any gases or liquid from the battery to be onto the ground.

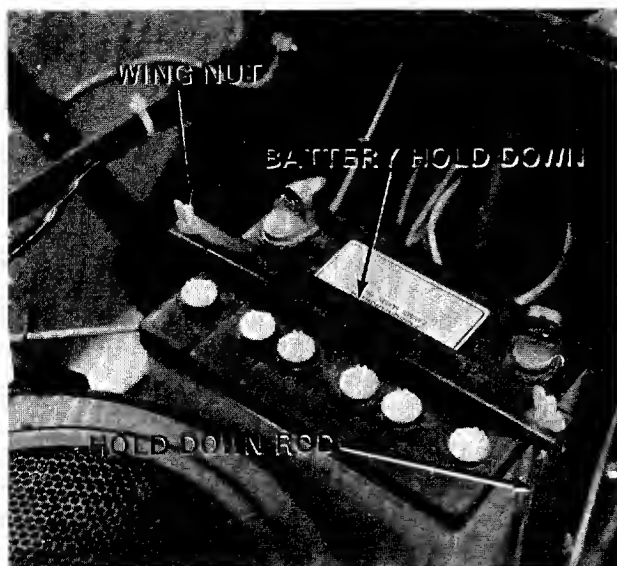


FIGURE 1.

3. Attach the positive cable (from the starter solenoid) and the small wire (from the circuit breaker) to the positive battery terminal (+) with a 1/4-20 x 3/4" long bolt, lock washer and hex nut.
4. Attach the negative cable (grounded) to the negative battery terminal (-) with the other 1/4-20 x 3/4" long bolt, lock washer and hex nut.

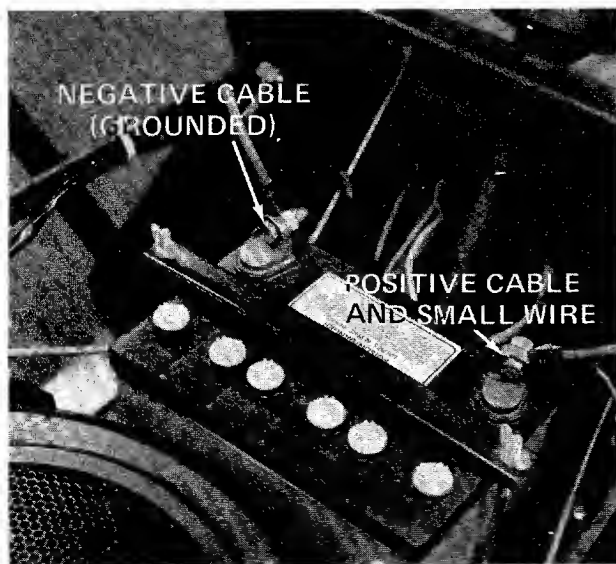


FIGURE 2.

Route the battery drain tube down beside the oil drain pipe on the right hand side of tractor so it drains onto the ground. Secure battery drain tube to oil drain pipe with plastic tie provided. Cut off excessive end of plastic tie.

### SEAT ASSEMBLY

The seat can be adjusted to four positions. With the seat tipped forward, hook the front of the seat spring into the slots on the tractor frame. Allow the seat to pivot backwards until it rests on the rear of the springs. See figure 3.

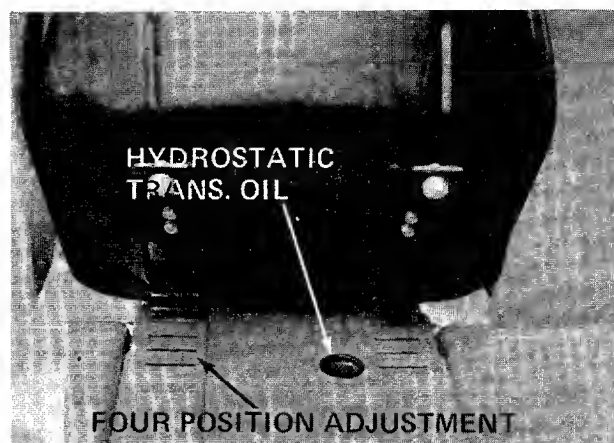


FIGURE 3.

### STEERING WHEEL INSTALLATION

1. Place the steering wheel over the steering column extending through the dash. Line up the flats on the steering column with the flats in the steering wheel. See figure 4.

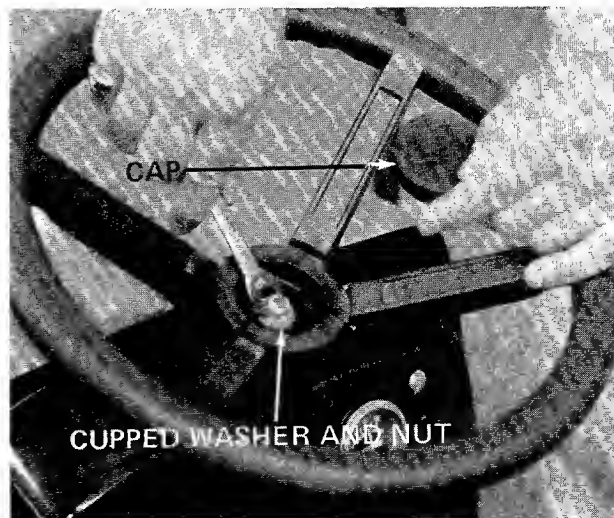


FIGURE 4.



2. Place the washer with the cupped side down over the steering column and secure with a hex nut 5/16".
3. Place the cap over the center of the steering wheel and seat it with your hand.

### TIRE PRESSURE

The tires have been over-inflated for shipping. Reduce the rear wheel tire pressure to 15 p.s.i. for operation. Equal tire pressure should be maintained on all tires. Maximum tire pressure is 30 p.s.i.



### CAUTION

Pull the lift lever back to the raised position before taking the tractor off the skid.

## CONTROLS

### Ignition Switch

The ignition switch is located in the center of the dashboard. Turn the key to the "START" position to start the engine. When the engine is running leave the key in the "ON" position. To stop the engine, turn the key to the "OFF" position. See figure 5.



### WARNING

Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

### Throttle Control

The throttle control is located on the left side of the dashboard and is used to regulate the engine speed. See figure 5. The engine should be operated from 3/4 to full throttle (FAST) when operating any equipment that uses the tractor engine as a source of power such as the mowing deck, snow thrower or rotary tiller. See figure 5.

### Light Switch

The head lamps are operated by pushing the light switch located on the dashboard. The head lamps will only operate when the engine is running. See figure 5.

### Ammeter

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running the FAST position until the battery is completely charged.

With a fully charged battery or with the engine idling, the ammeter may not show a charge.

The maximum charging rate is 3 amps. The head lamps operate directly from the engine alternator and do not register on the ammeter. See figure 5.

### Gasoline Tank

The gasoline tank is located on the engine. Raise the hood forward to fill the tank.

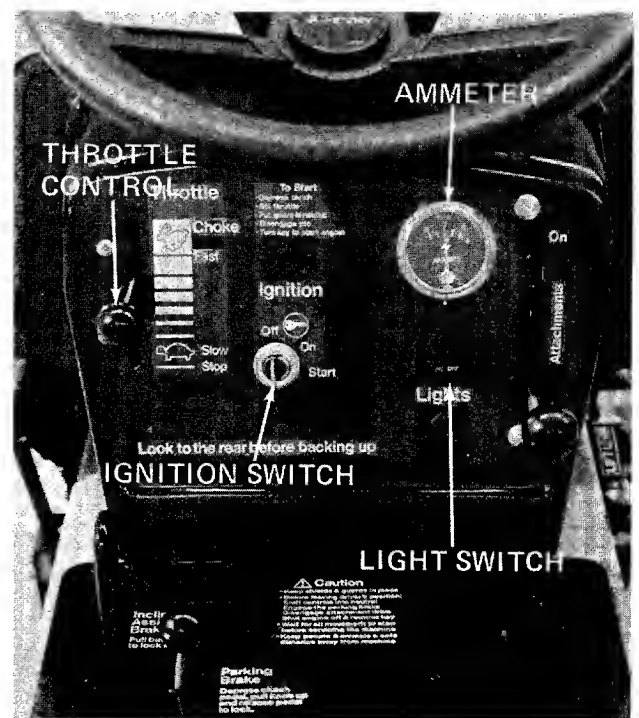


FIGURE 5.

### Clutch-Brake Pedal

The clutch-brake pedal is located on the right side of the tractor. Depressing the clutch-brake pedal part way disengages the clutch.

Pressing the pedal all the way down disengages the clutch and engages the disc brake. See figure 6.



### NOTE

The clutch-brake pedal must be depressed to start the engine.

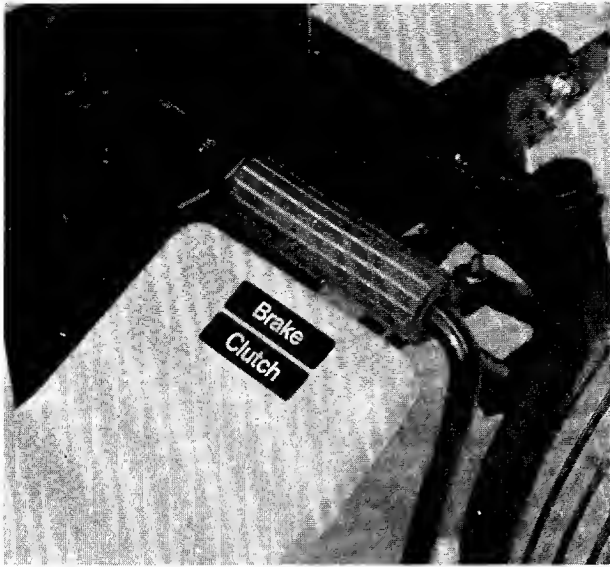


FIGURE 6.

### Parking Brake

To set the parking brake, depress the clutch-brake pedal and pull up the parking brake knob. It will stay in the raised position. To release the parking brake, depress and release the clutch-brake pedal. See figure 7.

### Incline Assistance Brake

When stopping on a hill, hold the lever back while you release the clutch-brake pedal until the tractor begins to move, then release the lever. This prevents you from moving on the hill while releasing clutch. See figure 7.



FIGURE 7.

### Power Take Off (PTO) Lever

The PTO engagement lever is located on the right side of the dashboard. It is used to engage the blades on the cutting deck or snow thrower attachments. To turn on the attachment, lift the lever slowly and lock it in the notch. To turn off the attachment, remove the lever from the notch and lower it to the OFF position. See figure 8.



The PTO Engagement Lever **must** be in the "OFF" position when starting the engine and when shifting into reverse.



FIGURE 8.

### Lift Lever

The five position lift lever is used to change the operating position of the attachments. To operate, pull the lever towards you. To release, move the lever to the right and then forward. See figure 9.



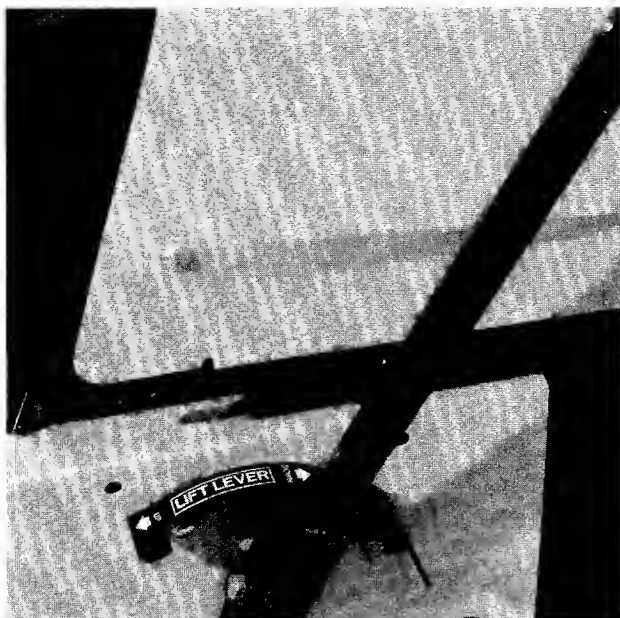


FIGURE 9.

### Gear Shift Lever

The transaxle has five forward gears, neutral and reverse. **Do not** shift through the gears on the transaxle as you would in an automobile. Pre-select the gear appropriate for the job you are doing. See figure 10.

You must depress the clutch-brake pedal and come to a complete stop before shifting gears.

- 1st: Heavy grass cutting.  
Heavy snow removal.
- 2nd: Heavy grass cutting.  
Light snow removal.
- 3rd: Normal grass cutting.
- 4th: Light grass cutting.
- 5th: Traveling.

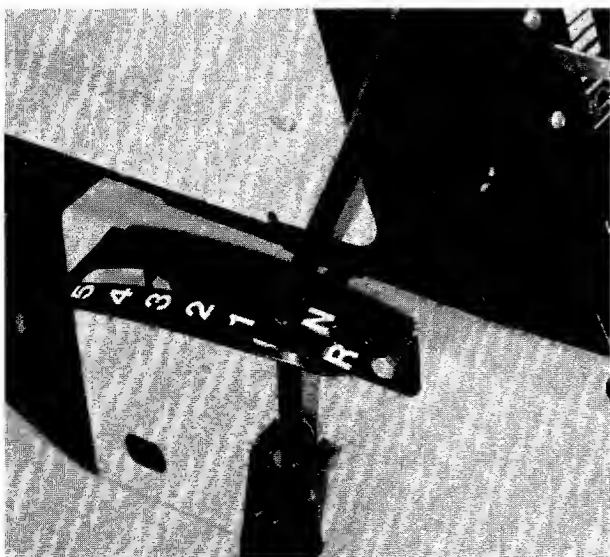


FIGURE 10.

## OPERATION



### CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
  - a. Shift transmission to neutral
  - b. Set parking brake
  - c. Disengage attachment clutch
  - d. Shut off engine
  - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

## CAUTION

**DO NOT OPERATE  
MOWER UNLESS  
GUARD OR ENTIRE  
GRASS CATCHER IS  
IN ITS PROPER PLACE.**

## PREPARATION



### NOTE

When packaged for shipment, the machine contains no oil or gasoline. Before starting the engine, oil must be added to the engine crankcase and gasoline to the tank. **DO NOT** mix oil with gasoline.

1. **Put oil in engine crankcase.** Use a high quality detergent oil classified "For service SC or SD or MS." Nothing should be added to the recommended oil.

**Summer.** (Above 40° F.) Use SAE 30. If not available use SAE 10W-30.

**Winter.** (Under 40° F.) Use SAE 5W-20 or SAE 5W-30. If not available, use SAE 10W or SAE 10W-30. Below 0° F., use SAE 10W or SAE 10W-30 diluted 10% with kerosene.

Place the engine level. Fill the oil sump to the **FULL** mark on the dipstick. Pour slowly.

**Crankcase Capacity - 2 1/2 Pints.**

2. Fill the gasoline tank with clean, fresh, leaded **regular** grade automotive gasoline.

## OPERATING THE LAWN TRACTOR



This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the P.T.O. lever is in the disengaged position. In addition, the P.T.O. lever must be in the disengaged position when the unit is put into reverse or the engine will shut off.



Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

1. Place the PTO lever in the disengaged position (down). See figure 8.
2. Depress the clutch-brake pedal and set the parking brake. See figures 6 and 7.
3. Place the gear shift lever in the "NEUTRAL" (N) position. See figure 10.
4. Set the throttle control in the "FAST" position. See figure 5.
5. Turn the ignition key to the right to the "START" position. After the engine starts release the key. It will return to the "ON" position. See figure 5.
6. Select one of five forward gears. See figure 10.
7. Slowly depress the clutch-brake pedal so the parking brake is released and then release the clutch-brake pedal. See figures 6 and 7.
8. To stop the tractor, pull the gear shift lever into "NEUTRAL" (N) or depress the clutch-brake pedal.
9. To shut off the engine, turn the ignition key to the "OFF" position.



If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

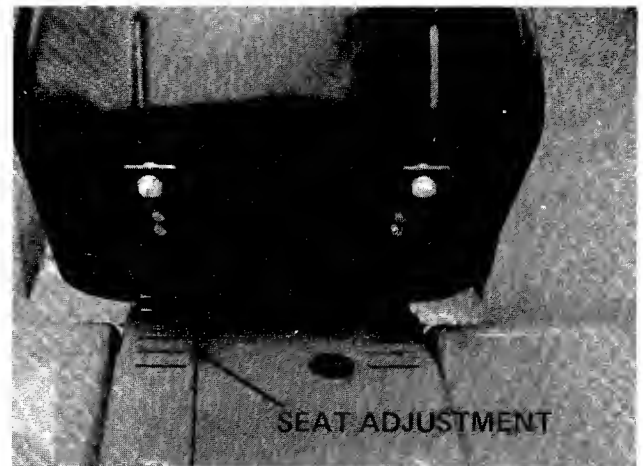
## ADJUSTMENTS



Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

### SEAT ADJUSTMENT

The tractor seat is adjustable to four positions. To change positions, tip the seat all the way forward and lift it out of the slots on each side. See figure 11.



**FIGURE 11.**

### REAR WHEEL TRACK ADJUSTMENT

The distance between the rear wheels can be changed from wide to narrow by removing the rear wheels one at a time and reversing them on the hub.

With the rear wheels in the narrow position, their outside is even with the outside of the front wheels.

With the rear wheels in the wide position, their inside is even with the outside of the front wheels.

### BRAKE ADJUSTMENT

During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.



## CAUTION

Do not adjust the brake while the engine is running. Be sure to block the wheels of the tractor before making the brake adjustment.

1. Loosen the jam nut. See figure 12.
2. Turn the adjusting nut in until it locks the disc.
3. Back off the adjusting nut one complete turn.
4. Tighten the jam nut.

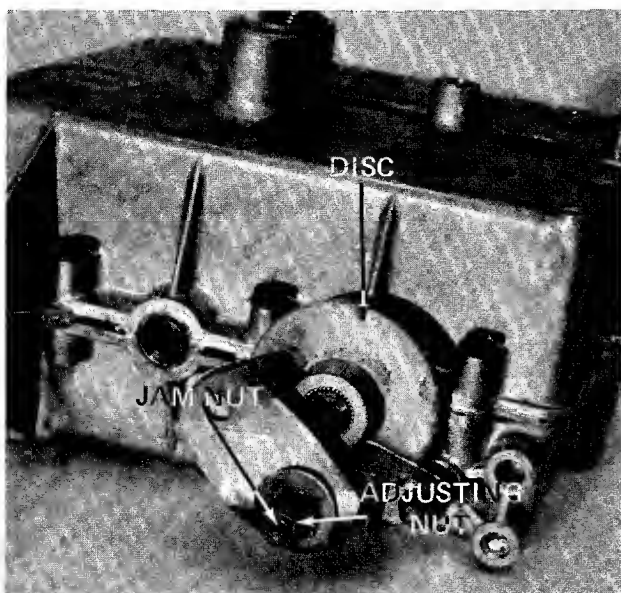


FIGURE 12.

## CARBURETOR AND CHOKE ADJUSTMENTS



## WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler. If carburetor or choke

adjustments are required, refer to separate engine manual packed with your lawn tractor.

## LUBRICATION



## IMPORTANT

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn tractor.

**STEERING GEARS** - Wipe off the old grease and dirt. After every 25 hours of operation place an automotive multi-purpose grease in the teeth of the segment and pinion gears. See figure 13.

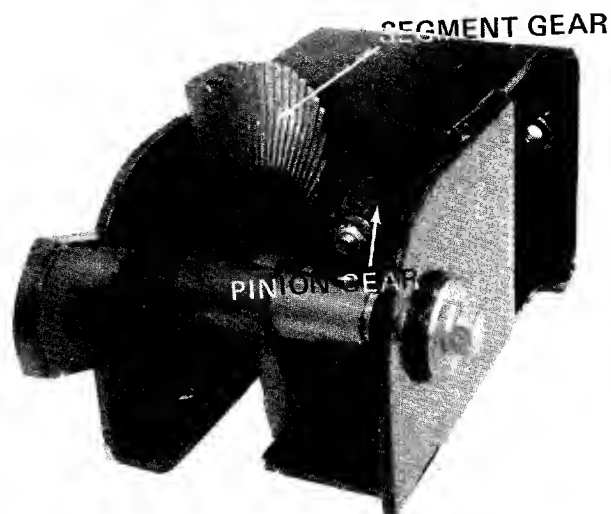


FIGURE 13.

**TRANSAXLE** - The transaxle is lubricated and sealed at the factory. It is not necessary to check the lubrication level unless the transaxle is disassembled for repair. The transaxle is lubricated with 24 ounces of E.P. Lithium grease. See figure 14.

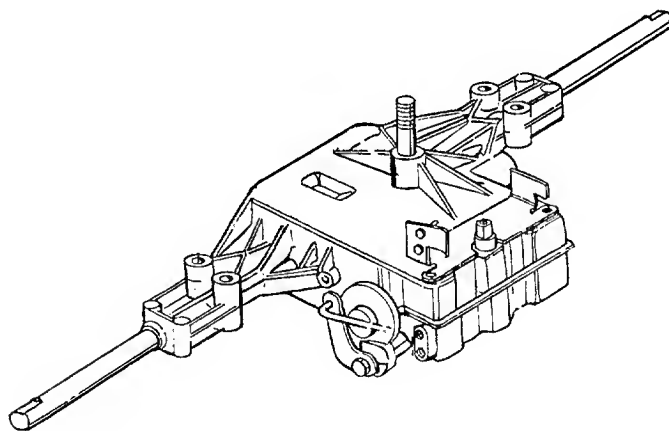


FIGURE 14.

**LINKAGE** - Once a season lubricate all the pivot points on the clutch, brake and lift linkage with SAE 30 engine oil.

**WHEEL BEARINGS** - The front wheel bearings and king pin bearings have Oilon PV 80 bearings that require no lubrication.

**BALL JOINTS** - The ball joints and drag link ends permanently lubricated.

# MAINTENANCE

## TROUBLESHOOTING

Refer to the chart on page 17 for troubleshooting engine problems.

## CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Keep the oil level between ADD and FULL. See figure 15.

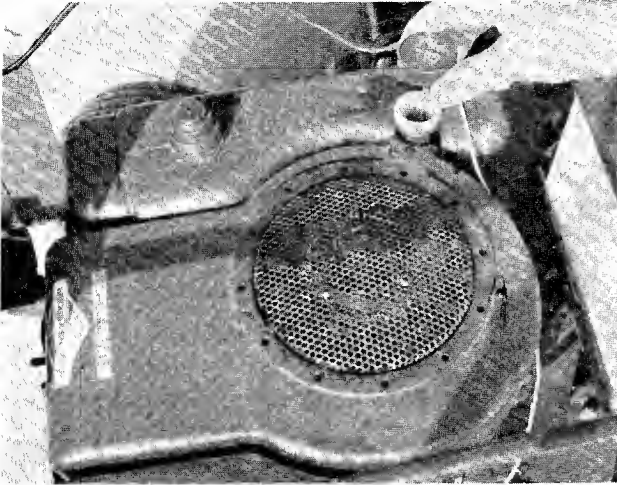


FIGURE 15.

After the first two hours of operating a new engine, drain the oil from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after every 25 hours of operation. This procedure ensures minimum wear of engine parts. To change the oil, proceed as follows:

1. Remove oil drain plug.
2. Drain the oil.
3. Replace oil drain plug.
4. Refill crankcase with oil. See page 9 for quantity and type of oil.

## MAINTENANCE OF BATTERY

1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, the battery should be recharged. Maximum charge rate 5 amps.
3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against corrosion.

4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.
5. Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

## STORAGE OF THE BATTERY

1. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
2. Keep the exterior of the battery clean, especially the top. A dirty battery will discharge itself.
3. Check the battery with a hydrometer. The battery must be stored with a full charge. A discharged battery will freeze.

Specific Gravity	Freezing Point
1.265	-71°F.
1.250	-62°F.
1.200	-16°F.
1.150	5°F.
1.100	16°F.



**CAUTION**

All batteries discharge during storage.

4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service or every two months, whichever comes first.

## COMMON CAUSES FOR BATTERY FAILURE

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



**NOTE**

These failures do not constitute warranty.

## BATTERY REMOVAL OR INSTALLATION



**WARNING**

When removing the battery, follow this order of disassembly to prevent your wrench from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

### To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

### JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



**WARNING**

Failure to use this starting procedure could cause sparking and the gases in either battery could explode.

### INSTALLATION OF TIRE TO RIM



**WARNING**

The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

### WHEEL ALIGNMENT

The front wheels should toe-in approximately 1/8". Measure the distances A and B on the front wheels. See figure 16.



**NOTE**

Dimension B should be approximately 1/8 inch less than dimension A.

To adjust the toe-in, loosen the hex jam nut, remove the elastic lock nut, lift the tie rod end out of the hole in the steering arm and screw the tie rod end in or out as necessary. See figure 17.

Reassemble the tie rod end after the correct alignment is made.

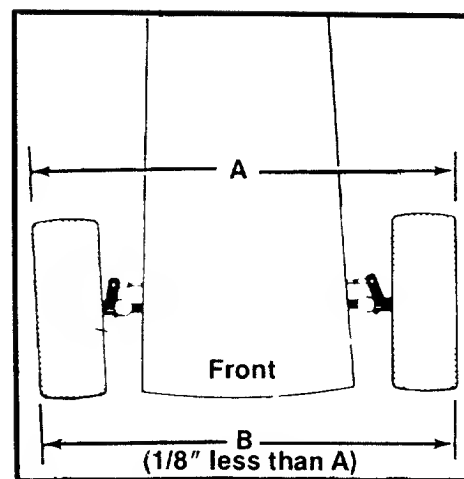


FIGURE 16.

### DRAG LINK (See Figure 17)

If the drag link or ball joints are changed, the new assembly must be adjusted to the exact same length as the original. If adjusted incorrectly, it will allow the tractor to turn sharper one direction than the other.

To take off the drag link, remove the nuts and lock washers holding the ball joint to the steering gear and left front axle bracket.

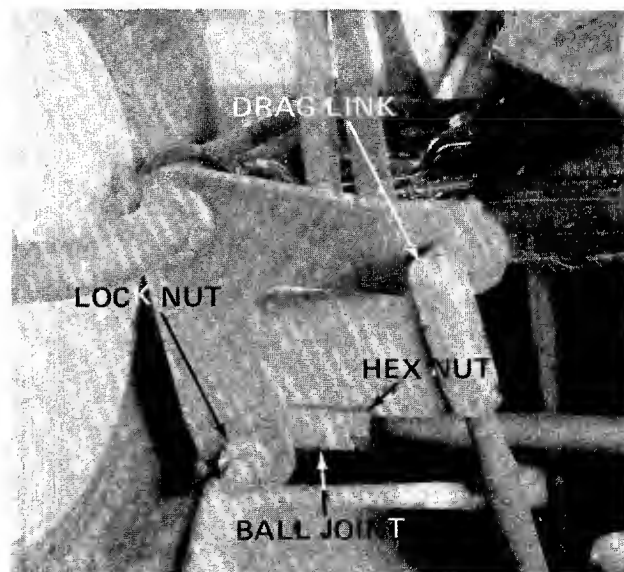


FIGURE 17.

### AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation.

To service air cleaner, refer to separate engine manual packed with your lawn tractor.

## DRIVE BELT REPLACEMENT (see figure 18)

1. If a cutting deck is attached to your tractor, remove it.
2. Depress the clutch pedal and set the parking brake.

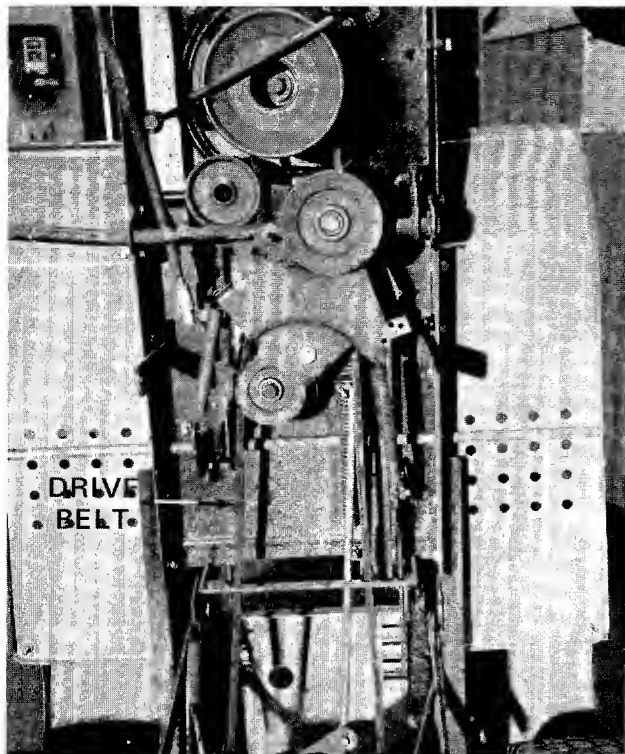


FIGURE 18.

3. Remove the transaxle belt guard by removing the two self-tapping screws. See figure 19.
4. Unhook the V-belt from the transaxle pulley.

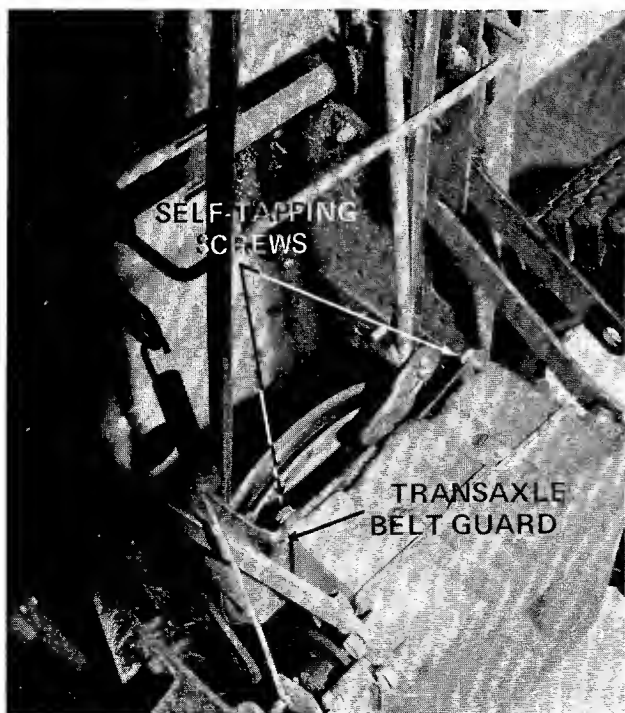


FIGURE 19.

5. Remove the lower idler by taking out the center bolt and nut.



When reassembling the idler be sure to place the belt keeper in the correct position. See figure 20.

6. Unhook the idler spring so the idler will swing out of your way.

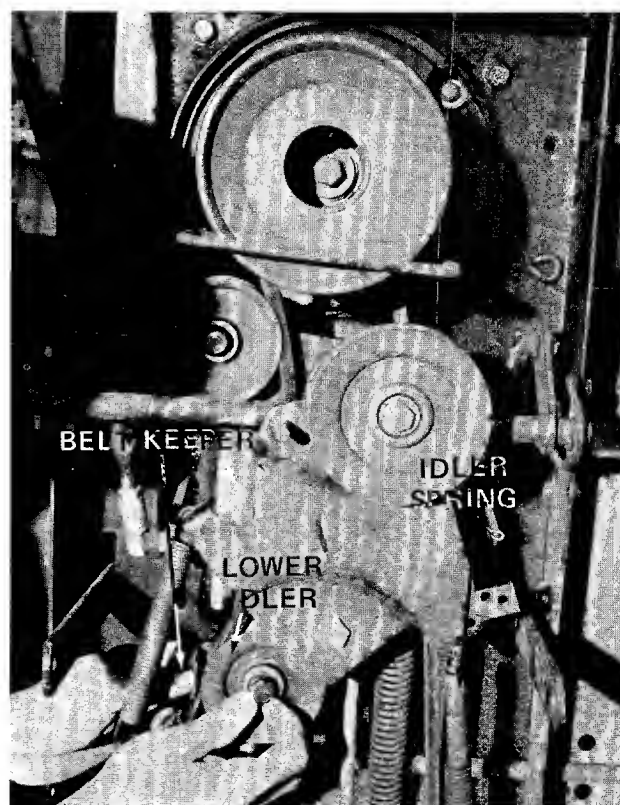


FIGURE 20.

7. Remove the cotter pin from the clutch shaft and pull it out of the bracket. See figure 21.

8. Remove the upper idler.



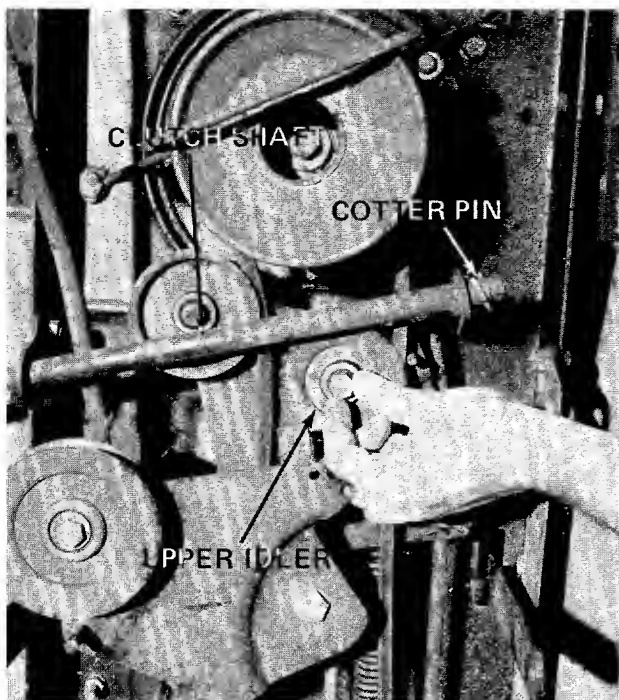


FIGURE 21.

9. Remove the cotter pin from the transaxle shifting rod and pull it out of the bracket. See figure 22.
10. The drive belt can now be removed.
11. Reassemble the new belt in reverse order.

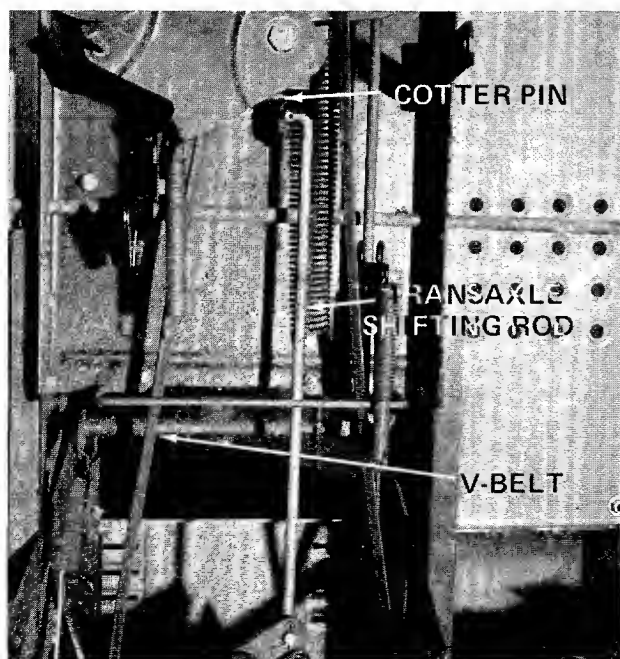


FIGURE 22.

## OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in the carburetor is exhausted.
2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
3. Disconnect the spark plug wires and remove the spark plugs from the cylinders. Pour about 2 or 3 tablespoons of engine oil into each cylinder, and then turn the engine over several times to spread out the oil. Replace the spark plugs but do not connect the wires.
4. Clean the engine and the entire tractor thoroughly.
5. Lubricate all lubrication points and wipe the entire machine with an oiled rag in order to protect the surfaces.
6. Refer to page 12 for battery storage information.

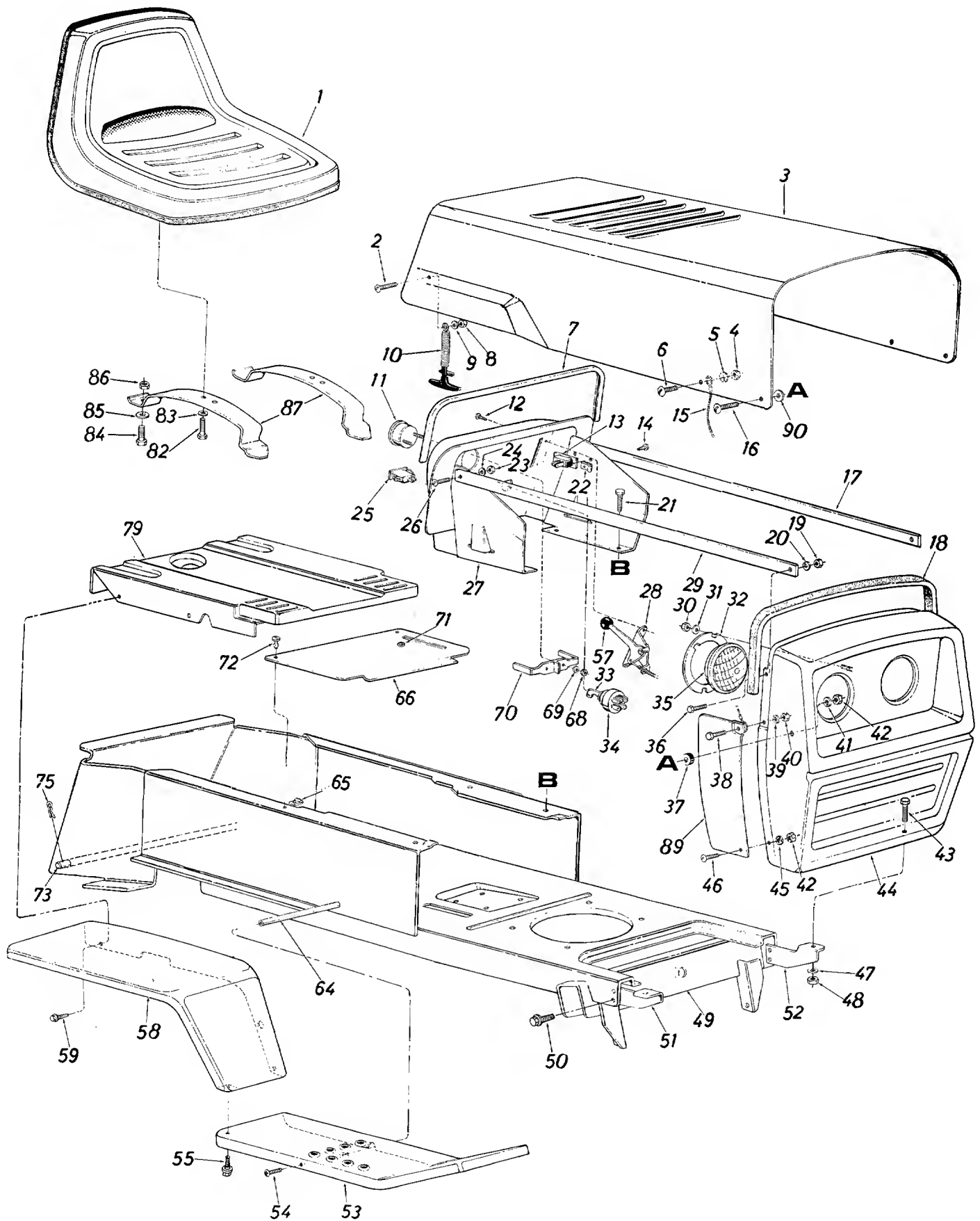
# TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7 1/2 amp. fuse 1/4 x 1 1/4" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger.</p> <p><b>Trickle Charger.</b> Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C., rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp.</p> <p><b>Alternator</b> (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div data-bbox="553 909 1430 1220" data-label="Diagram"> </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. <b>WARNING:</b> While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. If the engine does not crank: (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

## TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not sealed or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	<b>Stop engine immediately.</b> Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	<b>Stop engine immediately.</b> Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission gear. The slower your ground speed, the better the quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

# Models 050 and 730



BODY PANELS

# Models 050 and 730

## PARTS LIST FOR BODY PANELS MODELS 050 and 730 LAWN TRACTORS

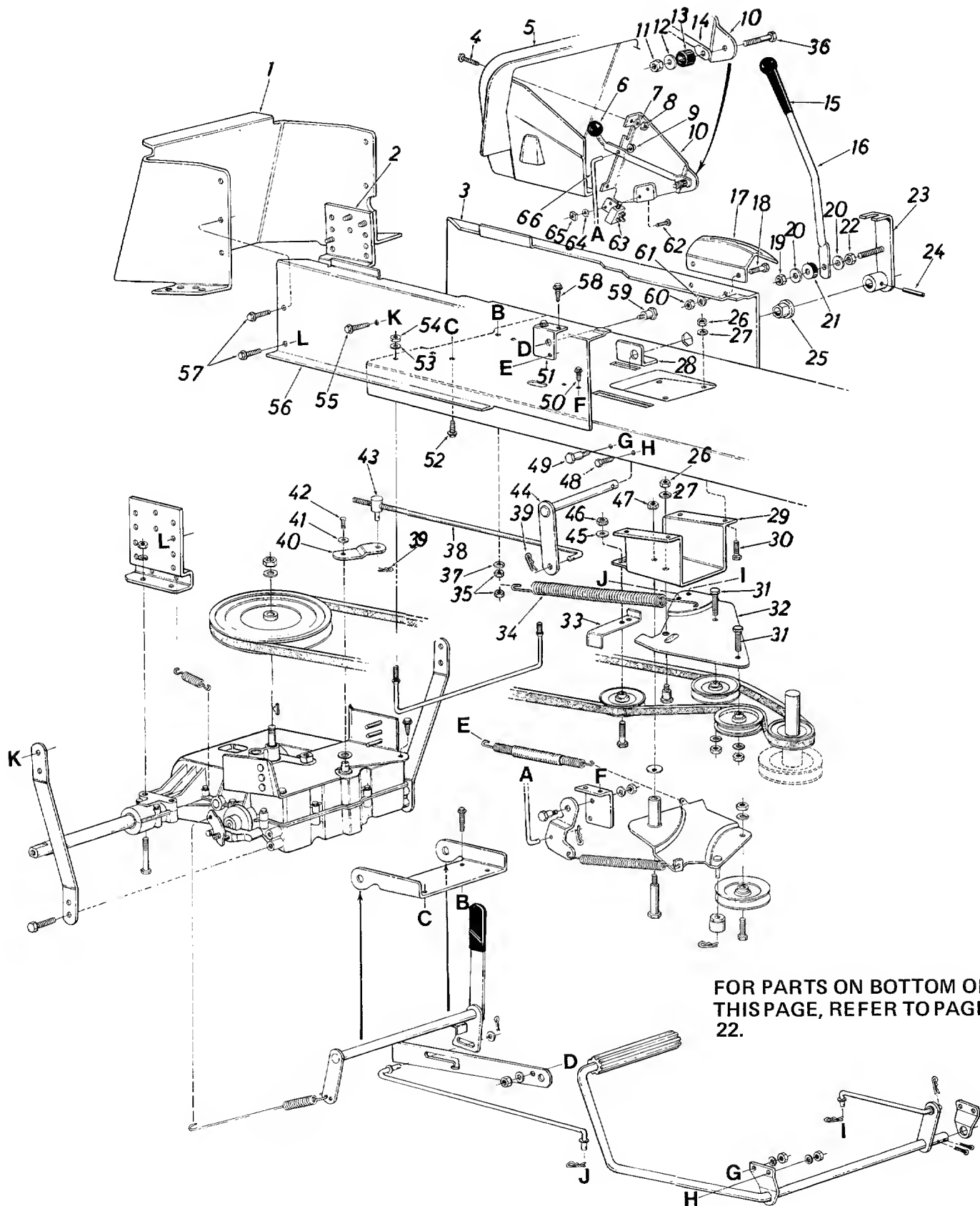
Ref. No.	Part No.	Color Code	DESCRIPTION	New Part	Ref. No.	Part No.	Color Code	DESCRIPTION	New Part
1	757-0298		Seat Assembly		42	712-0287		Hex Nut 1/4-20 Thd.*	
2	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		43	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
3	13808 --- 462		Hood		44	13801 --- 462		Grille Ass'y. (Painted)	
4	712-0287		Hex Nut 1/4-20 Thd.*			14226		Grille Ass'y. (Chrome)	
5	736-0329		L-Wash. 1/4" Scr.*		45	736-0329		L-Wash. 1/4" Scr.*	
6	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		46	710-0286		Truss Mach. Scr. 1/4-20x.50" Lg.*	
7	731-0423		Vinyl Molding Strip		47	736-0119		L-Wash. 5/16" Scr.*	
8	712-0287		Hex Nut 1/4-20 Thd.*		48	712-0267		Hex Nut 5/16-18 Thd.*	
9	736-0329		L-Wash. 1/4 Scr.*		49	13820		Lower Frame Ass'y.	
10	723-0296		Hood Latch Ass'y.		50	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
11	725-0119		Ammeter		51	13862		Grille Mount Brkt. - R.H.	
12	710-0351		Hex Tap Scr. #10 x .50" Lg.*		52	13863		Grille Mount Brkt. - L. H.	
13	725-0459		Circuit Breaker 8 Amp.		53	13828 --- 452		Running Board - R.H.	
14	710-0351		Hex Tap Scr. #10 x .50" Lg.*			13827 --- 452		Running Board - L.H. (Not Shown)	
15	727-0199		Hood Stop		54	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*	
16	710-0255		Truss Mach. Scr. 1/4-20 x .75" Lg.*		55	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
17	749-0220		Grille Positioning Rod		57	720-0166		Knob (throttle control)	
18	722-0137		PVC Roam Strip 1/2 x 1.00" x 12.5" Lg.		58	14058 --- 462		Fender Ass'y. - R.H.	
19	712-0287		Hex Nut 1/4-20 Thd.*			14057 --- 462		Fender Ass'y. - L.H. (Not Shown)	
20	736-0329		L-Wash. 1/4" Scr.*		59	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
21	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.		64	738-0435		Running Board Rod	
22	712-0344		Speed Nut #10 Z		65	726-0156		Speed Nut	
23	712-0287		Hex Nut 1/4-20 Thd.*		66	14056 --- 452		Transmission Cover	
24	736-0329		L-Wash. 1/4" Scr.*		68	-----		Part of Ref. No. 11	
25	725-0634		Light Switch		69	-----		Part of Ref. No. 11	
26	710-0166		Hex Scr. 1/4-20 x .62" Lg.*		70	-----		Part of Ref. No. 11	
27	13843		Dash Panel Ass'y.		71	731-0405		Snap Bushing	
28	746-0385		Throttle Control Comp. 17.0" Lg.		72	710-0473		Truss Hd. Scr. 1/4-20 x .75" Lg.	
29	749-0220		Grille Positioning Rod		73	738-0482		Hitch Rod	
30	712-0287		Hex Nut 1/4-20 Thd.*		75	714-0149		Internal Cotter Pin	
31	736-0329		L-Wash. 1/4 Scr.*		79	13814		Seat Plate	
32	09960		Head Lamp Retainer		82	710-0188		Hex Scr. 5/16-18 x .75" Lg.*	
33	725-0201		Ignition Key		83	736-0119		L-Wash. 5/16" Scr.	
34	725-0267		Ignition Switch		84	710-0689		Nylon Scr. 1/2" -13 x .75" Lg.	
35	725-0222		Head Lamp		85	736-0192		Fl-Wash..50" I.D. x 1.00" O.D. x .090	
36	710-0258		Hex Scr. 1/4-20 x .62" Lg.*		86	712-0206		Hex Nut 1/2-13 Thd.*	
37	735-0144		Rubber Wash. .50" I.D. x 1.00" O.D. x .25 Thk.		87	13123		Seat Spring	
38	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		89	13864 --- 462		Grille Side Panel - R.H.	
39	736-0329		L-Wash. 1/4" Scr.*			13235 --- 462		Grille Side Panel - L.H. (Not Shown)	
40	712-0287		Hex Nut 1/4-20 Thd.*		90	736-0173		Flat Wash. 1/4" I.D.	
41	736-0329		L-Wash. 1/4" Scr.*						



### NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

# Models 050 and 730





# Models 050 and 730

## PARTS LIST FOR DRIVE SYSTEM MODELS 050 and 730 LAWN TRACTORS

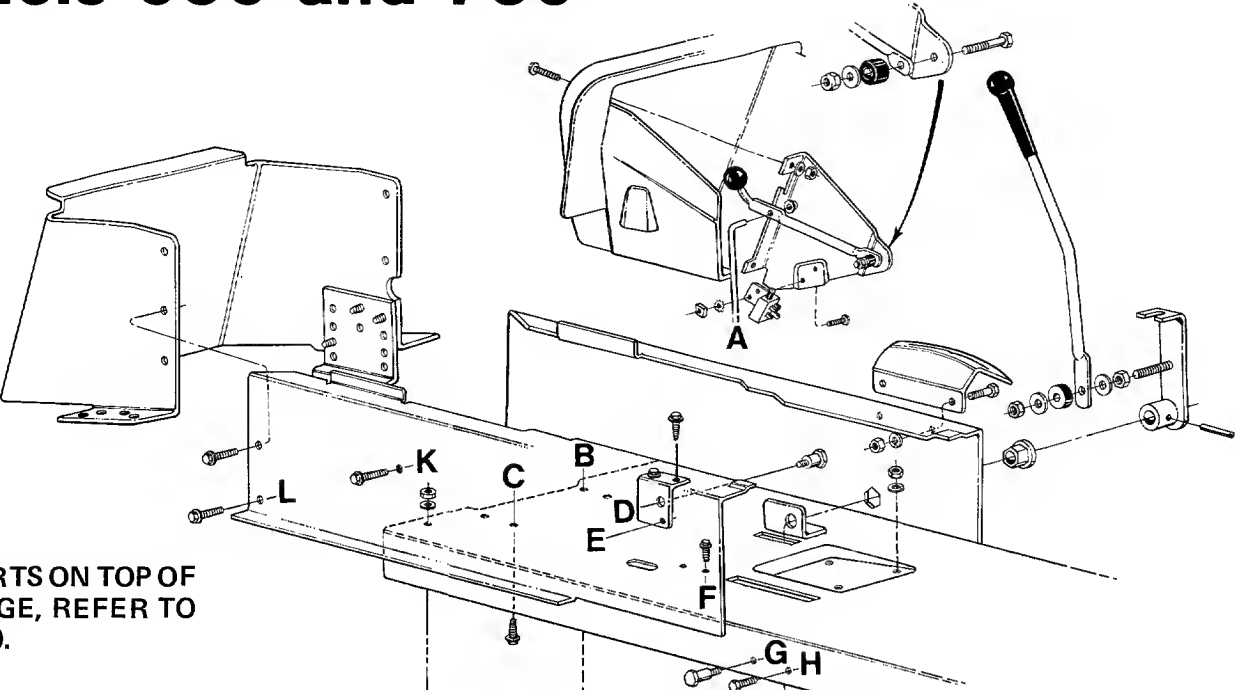
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	13813		Hitch Plate		35	712-0267		Hex Nut 5/16-18 Thd.*	
2	14067		Transaxle Support Bracket		36	710-0106		Hex Bolt 1/4-20 x 1.25" Lg.*	
3	13847		Side Panel Upper Frame L.H.		37	736-0119		L-Wash. 5/16" I.D.*	
4	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		38	747-0341		Shift Link	
5	13843		Dash Panel Ass'y.		39	714-0145		Hairpin Cotter 3/8"	
6	720-0165		Ball Knob (Blade Clutch)		40	14192		Shifter Bracket	
7	736-0329		L-Wash. 1/4" I.D.*		41	736-0270		Belleville Wash. .25" I.D. x .375" O.D.	
8	712-0287		Hex Nut 1/4-20 Thd.*		42	710-0513		Hex Bolt 1/4-28 x .62" Lg. (Special)	
9	726-0106		Push Cap 1/4" Rod		43	711-0198		Pivot Bushing	
10	13950		Deck Clutch Control Brkt.		44	14034		Speed Control Shaft Ass'y.	
11	712-0107		Hex Cent. L-Nut 1/4-20 Thd.		45	736-0300		FI-Wash. .385" I.D. x .87" O.D. x .060 Thk.	
12	736-0173		FI-Wash. .281" I.D. x .734" O.D. x .063 Thk.		46	712-0214		Hex Cent. L-Nut 3/8-24 Thd.	
13	735-0126		Rubber Wash. .330" I.D. x .87" O.D. x .32 Thk.		47	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
14	747-0157		Blade Clutch Lever		48	710-0201		Hex Bolt 3/8-16 x .62" Lg.*	
15	720-0143		Grip		49	738-0234		Shoulder Bolt .500" Dia. x .345" Lg. (3/8-16)	
16	747-0317		Shift Lever		50	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.	
17	14197		Shift Bracket		51	13833		Parking Brake Cam Mtg. Brkt.	
18	710-0752		Hex Bolt 5/16-18 x .62" Lg.*		52	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.	
19	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		53	736-0329		L-Wash. 1/4" I.D.*	
20	736-0159		FI-Wash. .344" I.D. x .875" O.D. x .063 Thk.		54	712-0287		Hex Nut 1/4-20 Thd.*	
21	735-0126		Rubber Wash. .330" I.D. x .87" O.D. x .32 Thk.		55	710-0371		Hex Bolt 5/16-18 x .88" Lg. (Special)	
22	712-0267		Hex Nut 5/16-18 Thd.*		56	13848		Side Panel Upper Frame—R.H.	
23	14195		Handle Mount Brkt. Ass'y. (Shift Lever)		57	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
24	715-0108		Spring Pin Spiral 1/4" Dia. x 1.00" Lg.		58	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.	
25	741-0225		Plastic Hex Bearing .625" I.D.		59	738-0155		Shoulder Bolt .435" Dia. x .160 (5/16-18)	
26	712-0267		Hex Nut 5/16-18 Thd.*		60	712-0267		Hex Nut 5/16-18 Thd.*	
27	736-0119		L-Wash. 5/16" I.D.*		61	736-0119		L-Wash. 5/16" I.D.*	
28	14035		Speed Control Shaft Brkt.		62	710-0473		Truss Mach. Scr. #10-24 x .50" Lg.*	
29	14063		Transaxle Clutch Support Brkt.		63	725-0465		Safety Switch	
30	710-0378		Hex Bolt 5/16-18 x 2.50" Lg.*		64	736-0147		Ext. L-Wash. #10 Scr.*	
31	710-0342		Hex Bolt 3/8-16 x 1.25" Lg.*		65	712-0121		Hex Nut #10-24 Thd.*	
32	14064		Idler Bracket Ass'y.		66	747-0307		Deck Control Rod	
33	13819		Belt Guard						
34	732-0307		Extension Spring .995" O.D. x 11.0" Lg.						

(462—Red Flake)  
(481—Midnight Bronze)  
(448—Regency Gold)

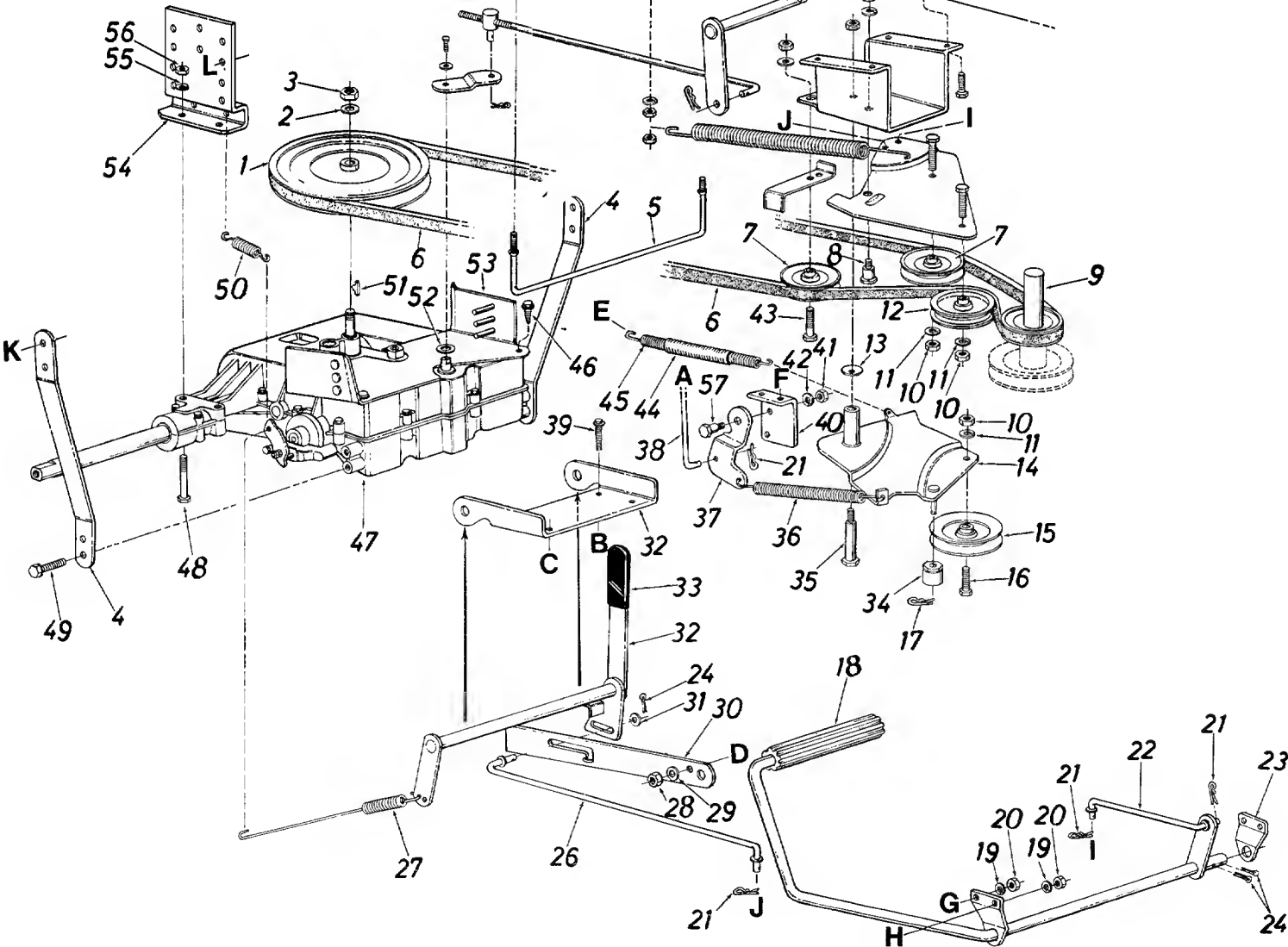
\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts if color is important, use the appropriate color code listed above. (e.g. 12369—462—Red Flake)

# Models 050 and 730



FOR PARTS ON TOP OF  
THIS PAGE, REFER TO  
PAGE 20.



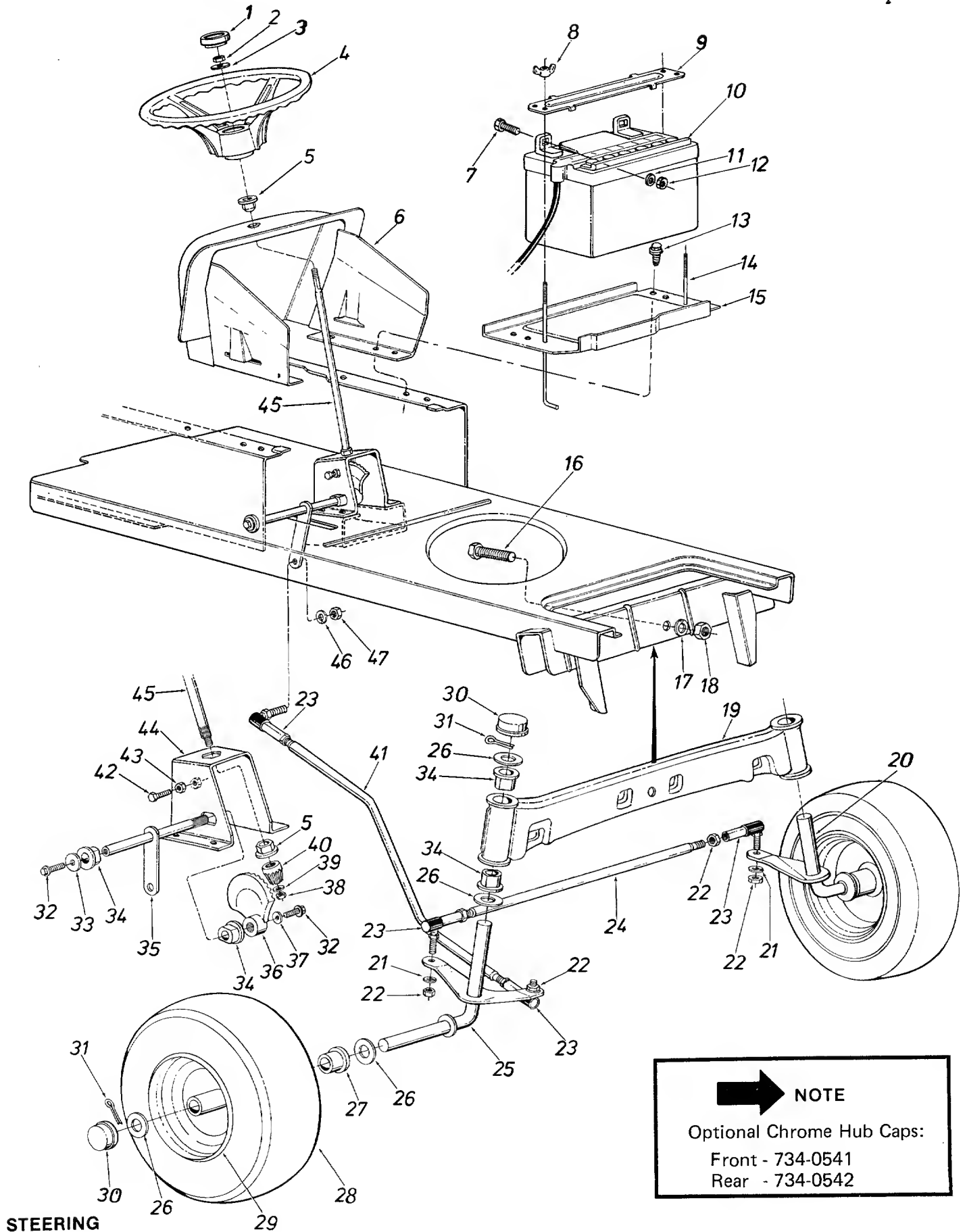
DRIVE SYSTEM

# Models 050 and 730

## PARTS LIST FOR DRIVE SYSTEM MODELS 050 and 730 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0341		8" "V"-Pulley (Transaxle)		32	14073		Hand Brake Lever Ass'y.	
2	736-0921		L-Wash. 1/2" I.D.*		33	720-0189		Grip—Flat Bar 1 1/4" Wide	
3	712-0922		Hex Nut 1/2-20 Thd.*		34	748-0278		Spacer	
4	14066		Transaxle Brace		35	738-0129		Shoulder Bolt .496" Dia. x 2.00" Lg. (3/8-16)	
5	737-0322		Belt Guard		36	732-0384		Extension Spring .620" O.D. x 6.12" Lg.	
6	754-0248		"V"-Belt 1/2" x 89" Lg. (Kevlar)		37	13887		Deck Control Brkt.	
7	756-0116		"V"-Belt Idler Pulley .38" I.D. x 3-1/16" O.D.		38	747-0307		Deck Control Rod	
8	738-0155		Shoulder Bolt .435" Dia. x .160 (5/16-18)		39	710-0442		Hex Bolt 5/16-18 x 1.50" Lg.*	
9	756-0342		Two Step Engine Pulley 3.10" & 5.56" Dia.		40	13833		Parking Brake Cam Mtg. Brkt.	
10	712-0798		Hex Nut 3/8-16 Thd.*		41	712-0267		Hex Nut 5/16-18 Thd.*	
11	736-0169		L-Wash. 3/8" I.D.*		42	736-0119		L-Wash. 5/16" I.D.*	
12	756-0225		Flat Idler Pulley 2.75" O.D.		43	710-0459		Hex Bolt 3/8-24 x 1.50" Lg. (Grade 5)	
13	736-0105		Belleville Wash. .400" I.D. x .88" O.D. x .063		44	731-0483		Convoluted Conduit .50" I.D. x 4.0" Lg.	
14	14076		Idler Bracket Ass'y.		45	732-0308		Ext. Spring .50" O.D. x 6.37" Lg.	
15	756-0293		4" "V"-Idler Pulley		46	710-0726		Hex Wash. Hd. AB Tap Scr. 5/16-24 x .75" Lg.	
16	710-0342		Hex Bolt 3/8-16 x 1.25" Lg.*		47	—		Transaxle (See Breakdown on Page 30)	
17	714-0104		Hairpin Cotter 5/16" Dia.		48	710-0378		Hex Bolt 5/16-18 x 2.50" Lg.*	
18	735-0196		Foot Pad		49	710-0726		Hex Wash. Hd. AB Tap Scr. 5/16-24 x .75" Lg.	
19	736-0169		L-Wash. 3/8" I.D.*		50	732-0433		Extension Spring .50" O.D. x 2.75" Lg.	
20	712-0798		Hex Nut 3/8-16 Thd.*		51	714-0129		Hi-Pro Key 3/32" x 5/8" Dia.	
21	714-0145		Hairpin Cotter 3/8" Dia.		52	717-0234		Special Wash. 1.00" O.D. (Hdn.)	
22	747-0318		Brake Clutch Rod (4.60" Lg.)		53	14193		Transaxle Belt Keeper Ass'y.	
23	13859		Clutch Rod Bearing Brkt.		54	14067		Transaxle Support Bracket	
24	714-0474		Cotter Pin 1/8" Dia. x 1.00" Lg.*		55	736-0119		L-Wash. 5/16" I.D.*	
25	14040		Clutch Brake Pedal Ass'y.		56	712-0267		Hex Nut 5/16-18 Thd.*	
26	747-0319		Brake Cam Rod (13.60" Lg.)		57	738-0155		Shoulder Bolt .437" Dia. x .162" Lg. (5/16-18)	
27	732-0381		Extension Spring .59" O.D. x .93" Lg.						
28	712-0267		Hex Nut 5/16-18 Thd.*						
29	736-0119		L-Wash. 5/16" I.D.*						
30	13832		Parking Brake Cam						
31	736-0101		FI-Wash. .406" I.D. x 1.00" O.D. x .030 Thk.						

# Models 050 and 730

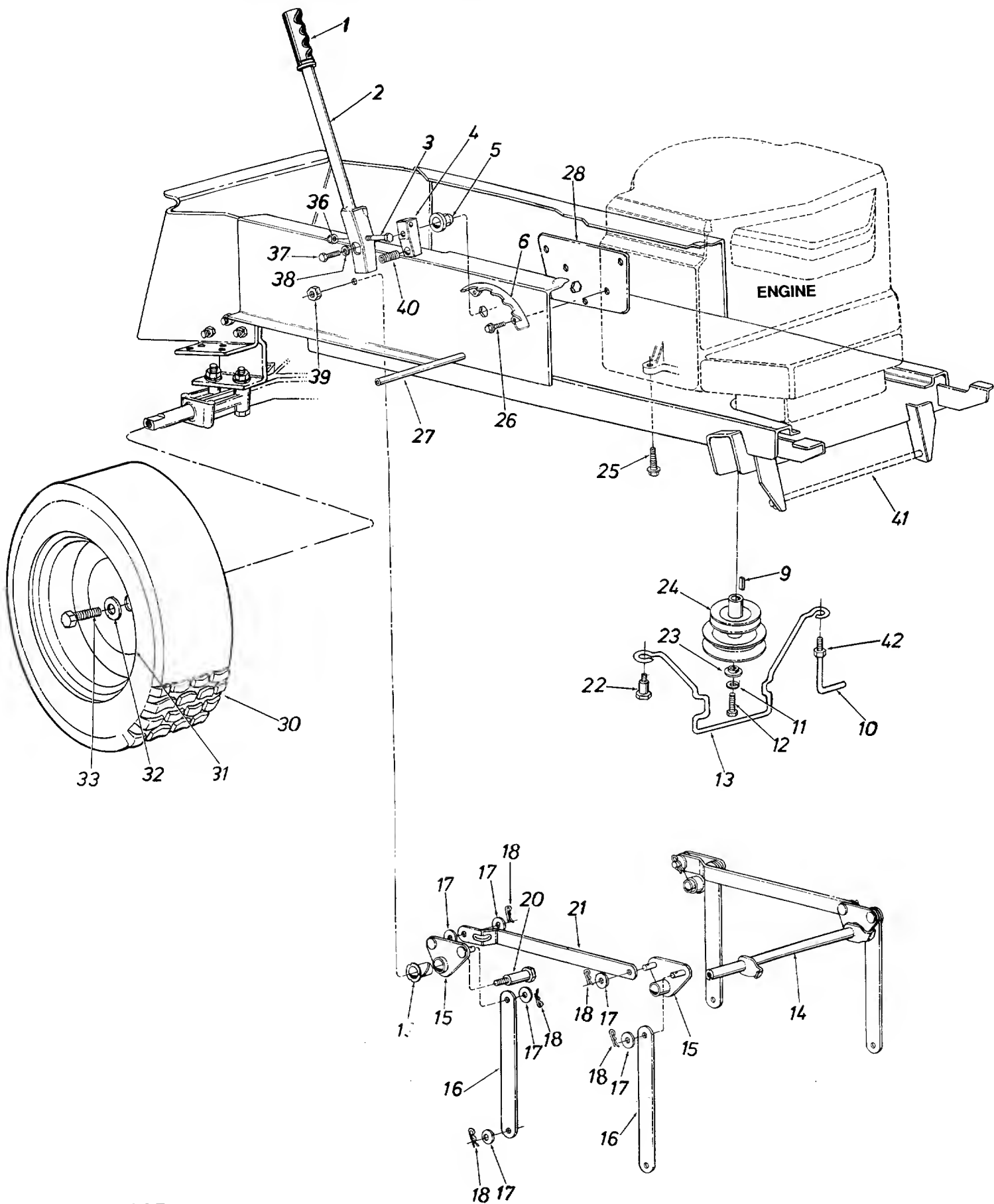


# Models 050 and 730

## PARTS LIST FOR STEERING MODELS 050 and 730 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		28	734-0960		Front Wheel Ass'y. Comp.	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		29	734-0961		Front Wheel Rim Only	
3	736-0275		Fl-Wash. 5/16" I.D. x 1.00" O.D. x .057			734-0498		Front Wheel Tire Only 15 x 6.00	
4	731-0356		Steering Wheel			734-0255		Air Valve	
5	741-0225		Plastic Hex Bearing 5/8" I.D.		30	731-0484		Dust Cover	
6	13843		Dash Panel Ass'y.		31	714-0121		Cotter Pin 5/32" Dia. x 1.00" Lg.*	
7	710-0258		Hex Scr. 1/4-20 x .62" Lg.		32	710-0180		Hex Scr. 3/8-24 x .75" Lg. Grade 5	
8	712-0113		Wing Nut Plastic 1/4-20 Thd.		33	736-0133		Fl-Wash. 3/8 I.D. x 1.25 O.D. x .090	
9	12614		Battery Hold Down		34	741-0199		Flange Double "D" Brg. .753 I.D.	
10	725-0453		12-V Battery		35	12749		Steering Arm Shaft Ass'y.	
11	736-0329		L-Wash. 1/4" Scr.*		36	748-0236		Side Gear—Steering	
12	712-0287		Hex Nut 1/4-20 Thd.*		37	736-0105		Bell-Wash. 3/8" I.D.	
13	710-0599		Hex Thd. Rolling Scr. 1/4-20 x .50" Lg.		38	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
14	711-0222		Battery Hold Down Rod		39	736-0264		Fl-Wash. 5/16" I.D. x .62 O.D. x .059	
15	13379		Battery Plate		40	748-0237		Pinion Gear—Steering	
16	710-0533		Hex Scr. 5/8-18 x 2.50" Lg.*		41	747-0302		Drag Link	
17	736-0158		L-Wash. 5/8" Scr.*		42	710-0670		Hex Nylon Scr. 3/8-16 x 1.25" Lg.	
18	712-0923		Hex Cent. L-Nut 5/8-18 Thd.		43	712-0798		Hex Nut 3/8-16 Thd.*	
19	13865		Front Pivot Bar Ass'y.		44	12850		Steering Gear Sup. Ass'y.	
20	13839		Front Axle Ass'y.—L.H.		45	738-0317		Steering Shaft	
21	736-0169		L-Wash. 3/8" Scr.*		46	736-0169		L-Wash. 3/8" Scr.*	
22	712-0241		Hex Nut 3/8-24 Thd.*		47	712-0241		Hex Nut 3/8-24 Thd.*	
23	723-0156		Ball Joint Ass'y.						
24	747-0301		Tie Rod						
25	13838		Front Axle Ass'y.—R.H.						
26	736-0316		Fl-Wash. .780 I.D. x 1.59 O.D.						
27	741-0293		Flange Bearing						

# Models 050 and 730



DECK LINKAGE



# Models 050 and 730

## PARTS LIST FOR DECK LINKAGE MODELS 050 and 730 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0157		Grip		23	736-0322		Fl-Wash. 7/16" I.D. x 1.25	
2	14233		Lift Handle Ass'y.					O.D. x .180 Thk.	
3	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*		24	756-0342		Two-Step Engine Pulley	
4	748-0274		Lift Shaft Drive		25	710-0502		Hex Wash. Hd. Scr. 3/8-16 x	
5	741-0225		Plastic Hex Brg. 5/8" I.D.					1.25" Lg.	
6	14231		Index Brkt. Deck Lift		26	710-0600		Hex Thd. Rolling Scr. 5/16-24	
9	714-0118		Sq. Key 1/4" x 1/4" x 1.50" Lg.					x .50" Lg.	
10	747-0216		Belt Guard Lock Pin		27	738-0435		Running Board Rod	
11	736-0171		L-Wash. 7/16" Scr.*		28	14170		Index Brkt. Reinforcement Plate	
12	710-0757		Hex Scr. 7/16-20 x 1.50" Lg.		29	731-0484		Dust Cover	
13	747-0320		Belt Guard		30	734-1064		Rear Wheel Ass'y. Comp.	N
14	13889		Lift Shaft Ass'y.		31	734-0764		Rear Wheel Rim Only	
15	13895		Lift Pivot Brkt. Ass'y.			734-1065		Rear Wheel Tire Only 20 x	
16	13791		Link (Deck)					10.00	N
17	736-0192		Fl-Wash. 1/2" I.D. x 1.00"		32	736-0242		Belleville Wash. .345 I.D. x	
			O.D. x .090					.88 O.D.	
18	714-0474		Cotter Pin 1/8" Dia. x .75"		33	710-0627		Hex Bolt 5/16-24 x .75" Lg.	
			Lg.		36	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
19	741-0295		Nyliner 5/8" I.D. x .88" Lg.		37	710-0237		Hex Scr. 5/16-24 x .62" Lg.*	
20	738-0445		Shld. Scr. 5/8" Dia. x .96"		38	736-0119		L-Wash. 5/16" Scr.*	
			Lg. 3/8-16		39	712-0181		Hex Top L-Nut 3/8-16 Thd.	
21	13790		Connecting Link		40	732-0369		Compression Spring	
22	738-0296		Shld. Scr. .437 Dia. x .268 Lg.		41	738-0392		Deck Connecting Rod	
			5/16-18		42	712-0123		Hex Nut 5/16-24 Thd.*	

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."



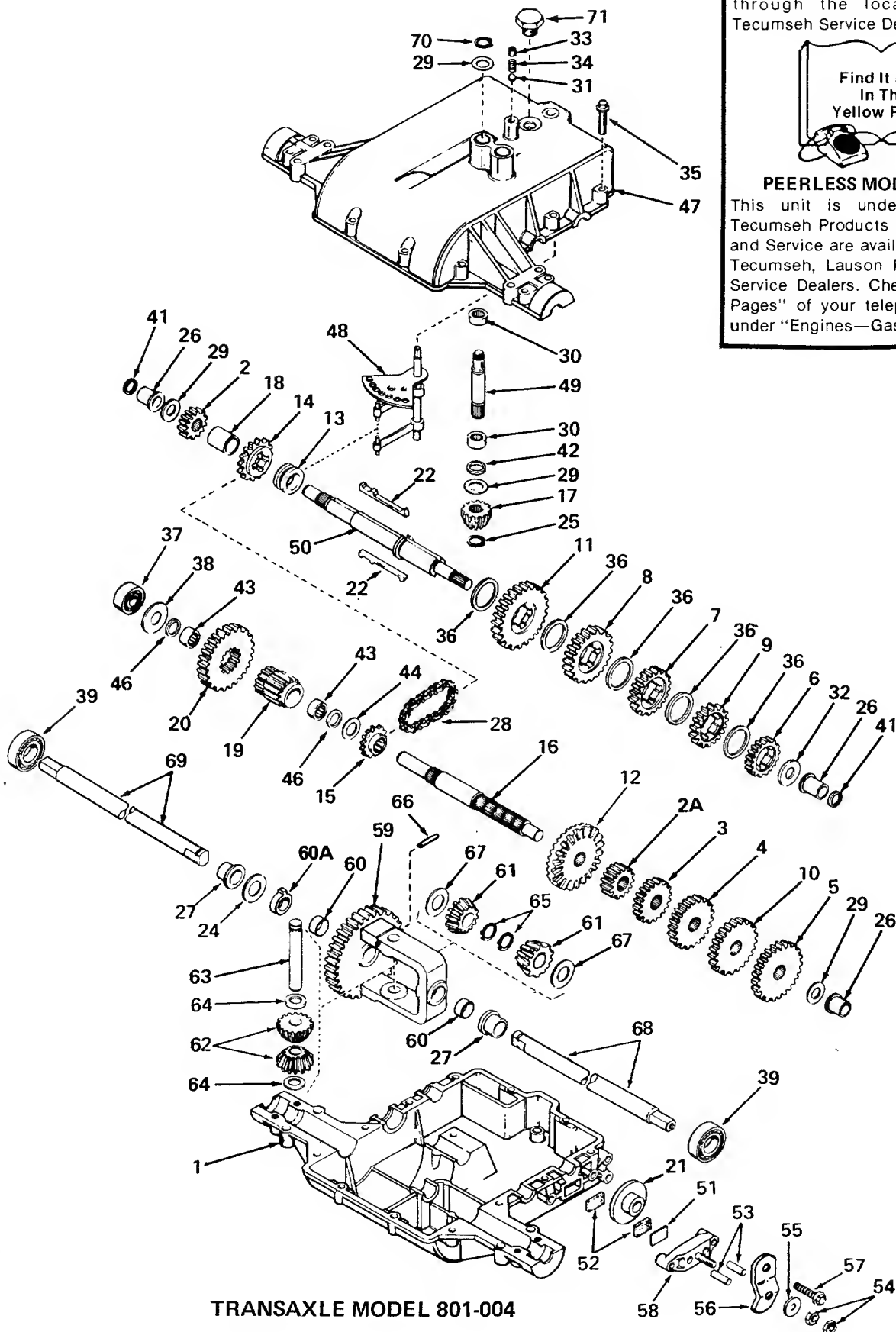
# Models 050 and 730

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.



## PEERLESS MODEL 801-004

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."



TRANSAXLE MODEL 801-004

# Models 050 and 730

## PARTS LIST FOR TRANSAXLE MODEL 801-004

Ref. No.	PART No.	DESCRIPTION	Ref. No.	PART No.	DESCRIPTION
1	PE-770071	Case, Transaxle	36	PE-780108	Washer, Thrust
2	PE-778136	Gear, Spur (15 Teeth)	37	PE-780121	Bearing, Ball
2A	PE-778145	Gear, Spur (12 Teeth)	38	PE-780113	Washer, Flat
3	PE-778126A	Gear, Spur (20 Teeth)	39	PE-780119	Bearing, Ball
4	PE-778127A	Gear, Spur (25 Teeth)	41	PE-788051	Ring, Square cut
5	PE-778129A	Gear, Spur (30 Teeth)	42	PE-788057	Ring, Square cut
6	PE-778121A	Gear, Spur (20 Teeth)	43	PE-780112	Bearing, Needle
7	PE-778123A	Gear, Spur (25 Teeth)	44	PE-780114	Washer, Flat
8	PE-778124A	Gear, Spur (30 Teeth)	46	PE-788056	Ring, Square cut
9	PE-778122A	Gear, Spur (22 Teeth)	47	PE-772082	Cover, Transaxle
10	PE-778128A	Gear, Spur (28 Teeth)	48	PE-784290	Rod & Ford Assy., Shift
11	PE-778146	Gear, Spur (37 Teeth)	49	PE-776140	Shaft, Input
12	PE-778137	Gear, Bevel (42 Teeth)	50	PE-776184	Shaft, Brake
13	PE-784266	Collar, Shift	51	PE-790007	Plate, Brake pad
14	PE-786083	Sprocket (18 Teeth)	52	PE-790006	Pad, Brake
15	PE-786082	Sprocket (9 Teeth)	53	PE-786026	Pin, Dowel
16	PE-776204	Shaft, Counter	54	PE-792075	Locknut, 5/16-24
17	PE-778113A	Bevel Pinion, Input	55	PE-792076	Washer, Flat
18	PE-786074	Spacer	56	PE-790013	Lever, Brake
19	PE-778138	Pinion, Output	57	PE-792073	Screw, Hex Hd., Thread forming, 1/4-20 x 1-1/4
20	PE-778139	Gear, Output	58	PE-790005	Holder, Brake pad
21	PE-790003	Disk, Brake	59	PE-778053A	Gear Assy., Differential (Incl. 2 of No. 60)
22	PE-792089A	Key	60	PE-780064	Bushing
24	PE-780001	Washer	60A	PE-780120	Bushing
25	PE-788040	Ring, Retaining	61	PE-778067	Gear, Bevel
26	PE-780105	Bushing, Flanged	62	PE-778068	Pinion, Bevel
27	PE-780118	Bushing, Flanged	63	PE-786034	Pin, Drive
28	PE-786081	Chain, Roller (No. 41 chain, 22 links)	64	PE-780065	Washer, Thrust
29	PE-780072	Washer, Thrust	65	PE-788038	Ring, Retaining
30	PE-780122	Bearing, Needle	66	PE-792040	Pin, Roll
31	PE-792077	Ball, Steel	67	PE-780001	Washer, Thrust
32	PE-780109	Washer, Thrust	68	PE-774436	Axle (15-1/4" long)
33	PE-792078	Screw, Set, 3/8-16 x 3/8	69	PE-774435	Axle (13-3/8" long)
34	PE-792079	Spring	70	PE-792035	Ring, Retaining
35	PE-792073	Screw, Hex. Hd., thread forming, 1/4-20 x 1-1/4	71	PE-792074	Plug, Hex Hd., 9/16-18 thread

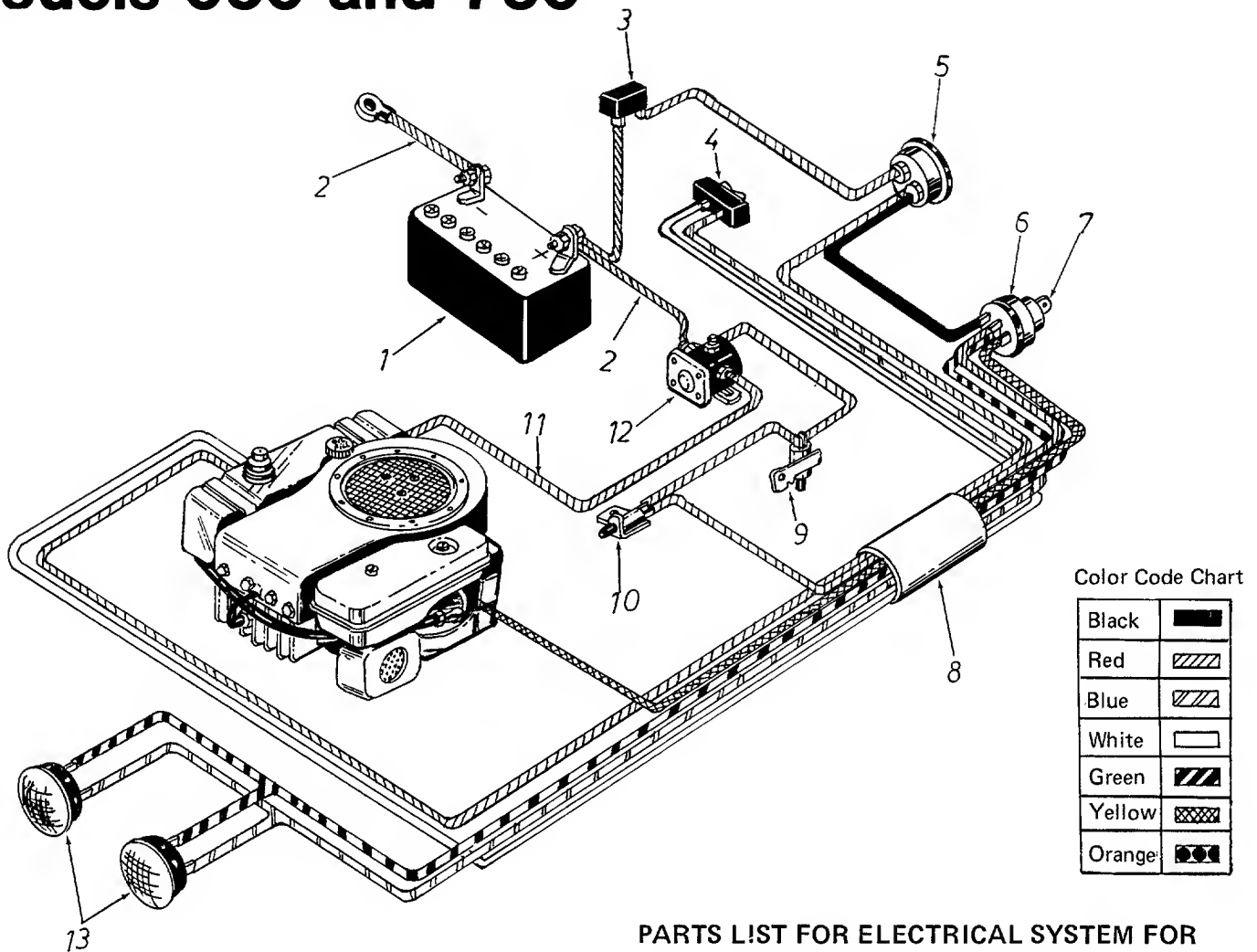
NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.



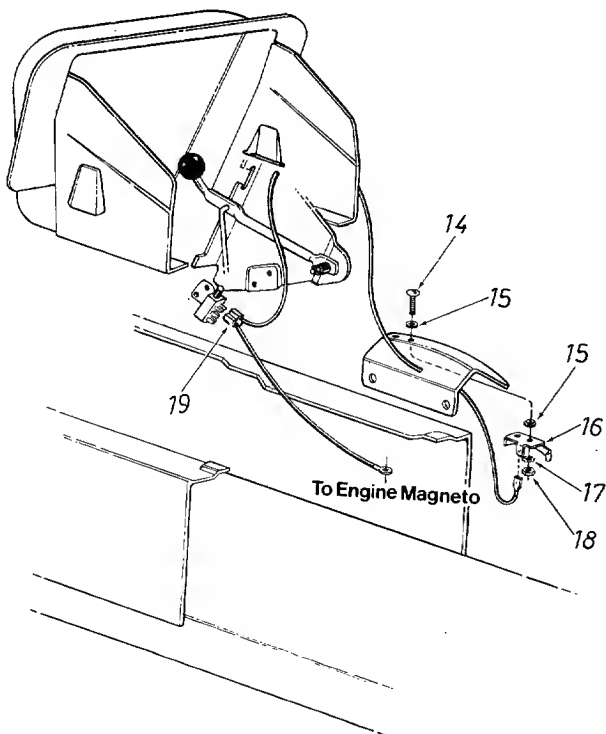
### PEERLESS MODEL 801-004

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines - Gasoline".

# Models 050 and 730



**PARTS LIST FOR ELECTRICAL SYSTEM FOR  
MODELS 050 and 730**



Ref. No.	PART No.	DESCRIPTION	New Part
1	725-0453	12V-Battery	N
2	725-0563	Electric Cable	
3	725-0459	Circuit Breaker	
4	725-0634	Light Switch	
5	725-0119	Ammeter	
6	725-0267	Ignition Switch	
7	725-0201	Ignition Key	
8	725-0667	Wire Harness	
9	725-0268	Safety Switch	
10	725-0465	Safety Switch	
11	725-0561	Electric Cable	
12	725-0530	Solenoid	
13	725-0222	Headlight	
14	710-0473	Truss Mach. Scr. #10-24 x .50" Lg.	
15	736-0338	Fiber Washer	
16	725-0758	Spring Switch	
17	736-0147	Ext. Lock Washer #10	
18	712-0121	Hex Nut #10-24 Thd.	
19	725-0764	Reverse Lockout Wire Harness	

# PARTS INFORMATION

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

## BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

**NOTE:** If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

<b>ALABAMA</b>	<b>BIRMINGHAM</b>
Auto Electric & Carburetor Co. ....	2625 4th Ave. S. ....35233
<b>ARKANSAS</b>	<b>FORT SMITH</b>
Mity Mite Motors, Inc. ....	4515 S. 16th St. ....72901
	<b>NORTH LITTLE ROCK</b>
Sutton's Lawn Mower Shop ....	Rt. 4, Box 368 ....72117
<b>CALIFORNIA</b>	<b>PORTERVILLE</b>
Billious. ....	75 North D Street ....93257
<b>COLORADO</b>	<b>DENVER</b>
Spitzer Industrial Products Co. ....	6601 N. Washington St., Box 29114 ....80229
<b>FLORIDA</b>	<b>JACKSONVILLE</b>
Radco Distributors ....	4909 Victor St., Box 5459 ....32207
	<b>OPA LOCKA</b>
Small Eng. Dist. ....	2351 N.W. 147th St. ....33054
<b>GEORGIA</b>	<b>EAST POINT</b>
East Point Cycle & Key ....	2834 Church St. ....30344
<b>ILLINOIS</b>	<b>LYONS</b>
Keen Edge Co. ....	8615 Ogden Ave. ....60534
<b>INDIANA</b>	<b>ELKHART</b>
Parts & Sales Inc. ....	2101 Industrial Pkwy...46514
<b>IOWA</b>	<b>DUBUQUE</b>
Power Lawn & Garden Equip. ....	2551 J.F. Kennedy ....52001
<b>LOUISIANA</b>	<b>NEW ORLEANS</b>
Suhren Engine Co. ....	8330 Earhart Blvd. ....70118
<b>MARYLAND</b>	<b>TAKOMA PARK</b>
Center Supply Co. ....	6867 New Hampshire Ave. ....20012
<b>MASSACHUSETTS</b>	<b>SPRINGFIELD</b>
Morton B. Collins Co. ....	300 Birnie Ave. ....01107
<b>MICHIGAN</b>	<b>LANSING</b>
Lorenz Service Co. ....	2500 S. Pennsylvania ..48910
	<b>MOUNT CLEMENS</b>
Power Equipment Dist. ....	340 Hubbard ....48043
<b>MINNESOTA</b>	<b>HOPKINS</b>
Hance Distributing Inc. ....	420 Excelsior Ave. W. .55343
<b>MISSISSIPPI</b>	<b>BILOXI</b>
Biloxi Sales & Service, Inc. ....	506 Caillavet St. ....39533
<b>MISSOURI</b>	<b>KANSAS CITY</b>
Automotive Equip. Service ....	3117 Holmes St. ....64109
	<b>ST. JOSEPH</b>
Ross-Frazier Supply Co. ....	8th and Monterey ....64503
	<b>ST. LOUIS</b>
Henzler, Inc. ....	2015 Lemay Ferry Rd. .63125
<b>NEW JERSEY</b>	<b>BELLMAWR</b>
Lawnmower Parts Inc. ....	717 Creek Rd. ....08030
<b>NEW MEXICO</b>	<b>ALBUQUERQUE</b>
Spitzer Eng. & Parts ....	1023 Third St. N.W. .87103
<b>NEW YORK</b>	<b>CARTHAGE</b>
Gamble Dist., Inc. ....	West End Ave. ....13619

<b>NORTH CAROLINA</b>	<b>GOLDSBORO</b>
Smith Hardware Co. ....	515 N. George St. ....27530
	<b>GREENSBORO</b>
Dixie Sales Company ....	335 N. Green ....27402
<b>OHIO</b>	<b>CARROLL</b>
Stebe's Mid-State Mower Supply .	71 High St., Box 366 .43112
	<b>CLEVELAND</b>
Bleckrie, Inc. ....	7900 Lorain Ave. ....44102
	<b>WADSWORTH</b>
National Central ....	687 Seville Rd. ....44281
	<b>YOUNGSTOWN</b>
Burton Supply Co. ....	1301 Logan Ave., Box 929 ....44501
<b>OKLAHOMA</b>	<b>MUSKOGEE</b>
Victory Motors, Inc. ....	605 S. Cherokee ....74401
<b>OREGON</b>	<b>PORTLAND</b>
Kenton Supply Co. ....	8216 N. Denver Ave. .97217
<b>PENNSYLVANIA</b>	<b>HARRISBURG</b>
EECO Inc. ....	4021 N. 6th St. ....17110
	<b>PHILADELPHIA</b>
Thompson Rubber Co. ....	5222-24 N. Fifth St. .19120
	<b>PITTSBURGH</b>
Bluemont Co. ....	11125 Frankstown Rd. .15235
	<b>PUNXSUTAWNEY</b>
Frank Roberts & Sons ....	R.D. 2 ....15767
<b>TENNESSEE</b>	<b>KNOXVILLE</b>
Master Repair Service ....	2000 Western Ave. ....37921
	<b>MEMPHIS</b>
American Sales & Service, Inc. .	3035-43 Bellbrook ....38116
<b>TEXAS</b>	<b>DALLAS</b>
Marr Brothers, Inc. ....	423 E. Jefferson ....75203
	<b>FORT WORTH</b>
Woodson Sales Corp. ....	1702 N. Sylvania ....76111
	<b>HOUSTON</b>
Bullard Supply Co. ....	2409 Commerce St. .77003
<b>UTAH</b>	<b>SALT LAKE CITY</b>
A-1 Engine & Mower Co. ....	437 E. 9th St. ....84111
<b>VERMONT</b>	<b>BURLINGTON</b>
Vermont Hdwe. Co. Inc. ....	180 Flynn Ave. ....05401
<b>VIRGINIA</b>	<b>ASHLAND</b>
RBI Corp. ....	Lake Ridge Park, 101 Cedar Run Dr. ....23005
<b>WASHINGTON</b>	<b>SEATTLE</b>
Bailey's Inc. ....	1414 14th Ave. ....98102
<b>WEST VIRGINIA</b>	<b>CHARLESTON</b>
Young's, Inc. ....	233 Virginia St., E. ....25301
<b>WISCONSIN</b>	<b>MARSHFIELD</b>
Power Pac ....	301 E. 29th St. ....54449

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.